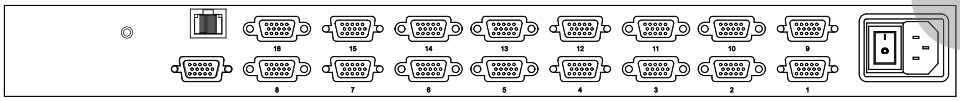
CyberView™ dedicated KVM switch and rackmount screen technology

User Manual - KVM Rear Kit Version for LCD Console Drawer

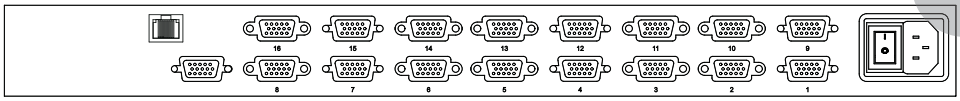
Combo DB-15 IP KVM

-IP802
-IP1602



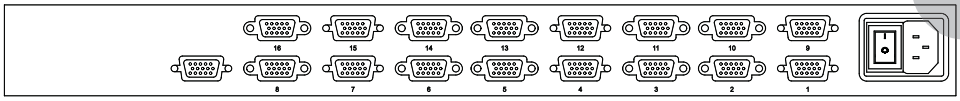
Combo DB-15 2-console KVM

-802
-1602



Combo DB-15 KVM

-S801
-S1601



751

Designed and manufactured by Austin Hughes

Legal Information

First English printing, October 2002

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40º Celsius (104º Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - ☐ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - ☐ Repair or attempted repair by anyone not authorized by us.
  - ☐ Any damage of the product due to shipment.
  - ☐ Removal or installation of the product.
  - ☐ Causes external to the product, such as electric power fluctuation or failure.
  - ☐ Use of supplies or parts not meeting our specifications.
  - ☐ Normal wear and tear.
  - ☐ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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-IP802 -IP1602

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< Part 2 > Combo DB-15 2-console KVM Kit

-802 -1602

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< Part 3 > Combo DB-15 KVM Kit

-S801 -S1601

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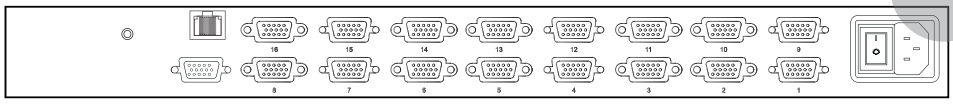
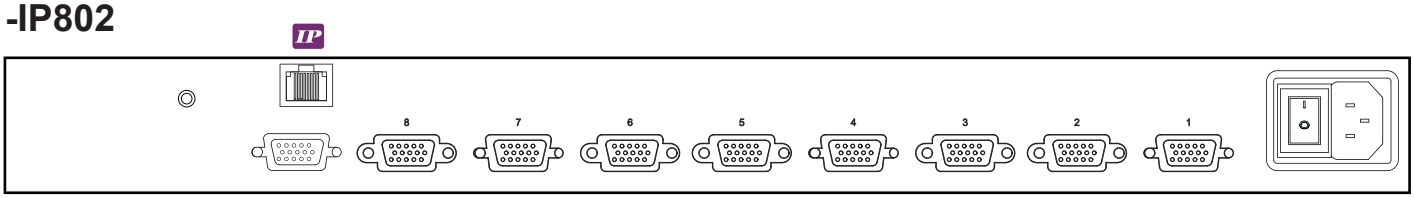
-IP802
-IP1602

KVM Rear Kit

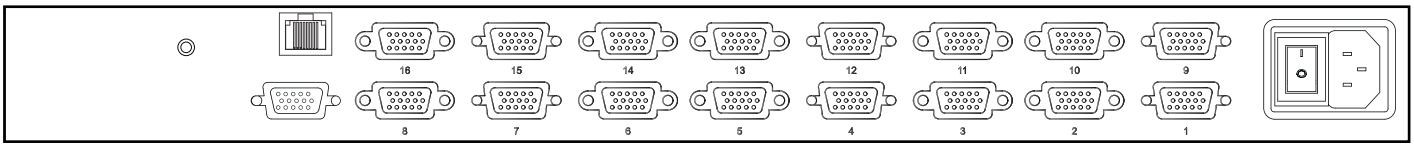


The power of the KVM rear kit may be changed to external power design based on the LCD console drawer series and model.

-IP802

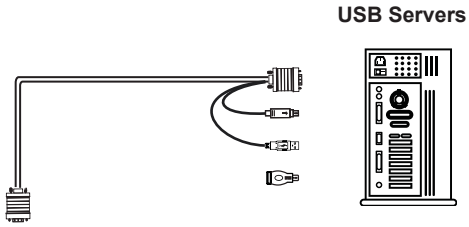


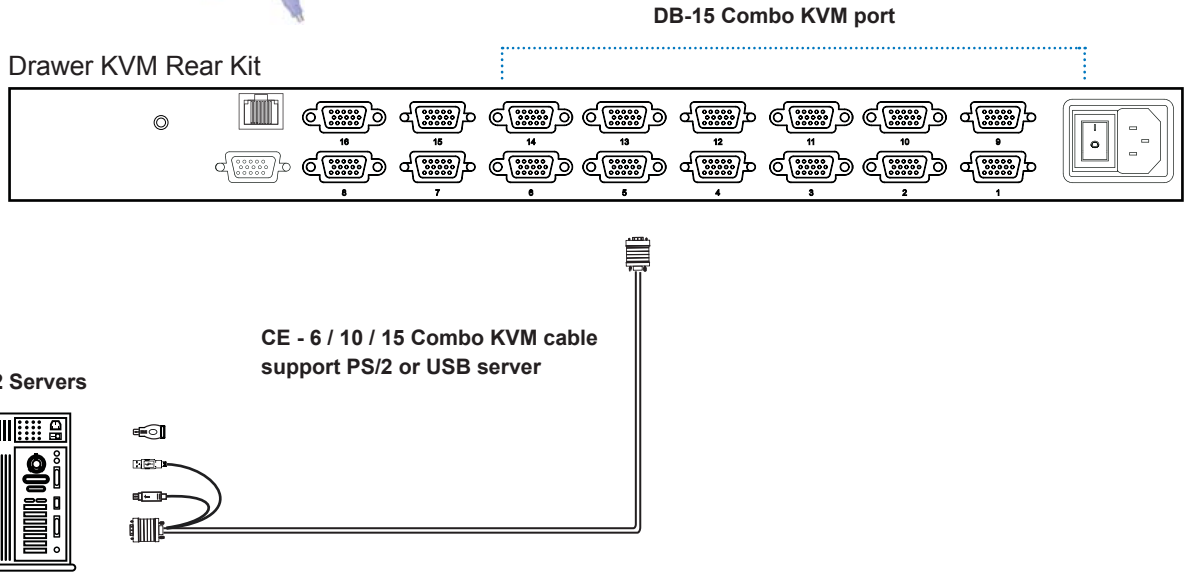
-IP1602



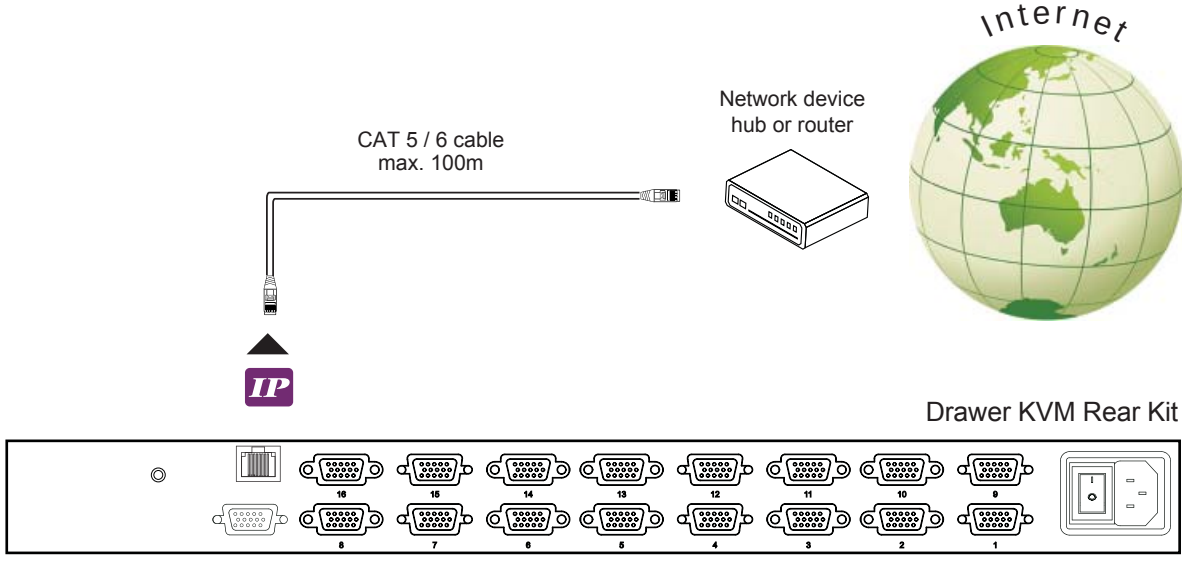
CE-6 / CE-10 / CE-15

- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server





< 1.3 > IP console connection

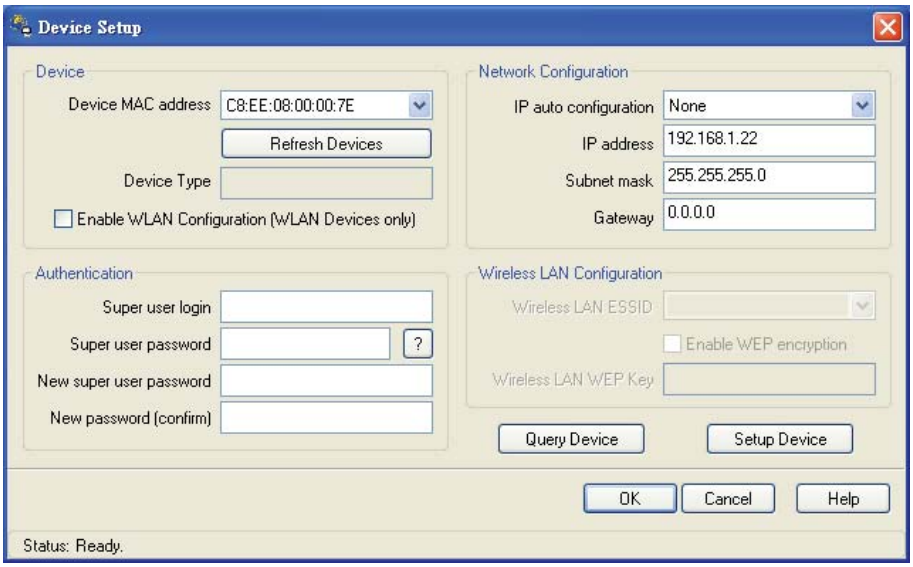


< 1.4 > IP console setting

After the cable connection, please take the following steps to configure the IP KVM :

1. Download IPKVMsetup.exe from the link:
www.austin-hughes.com/support/utilities/cyberview/IPKVMsetup.exe

2. Double click IPKVMsetup.exe to configure the IP KVM by device setup as below.



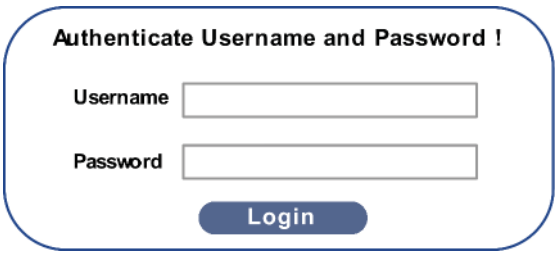
3. Click **Refresh Device** to search the connected IP KVM
4. Select the M.A.C. address, which you want to setup, then click **Query Device**
5. Enter Super user login. **The default is super**
6. Enter Super user password. **The default is pass**
7. Enter the new super user password
8. Re-enter the new password
9. Change the desired IP address / Subnet mask / Gateway, then click **Setup Device** to confirm the setting to IP KVM
10. The default address is as below:--

■ The single IP KVM model, such as IP-1602 - http://192.168.1.22

11. Open Internet Explorer (I.E.), version 6.0 or above

12. Enter the IP KVM address into the address bar
    - For Single IP - http://192.168.1.22

13. Enter username (default is super)
    Password (default is pass)



14. After successful login to IP KVM, the user will enter the main page of IP KVM

The setting is enough for intranet.
If the users access KVM GUI via internet, please ask MIS for assistance and download IP KVM user manual from the link :
www.austin-hughes.com/support/usermanual/cyberview/UM-CV-IP.pdf

< 1.5 > Important Preconfiguration for IP console

You must complete the following tasks after the IP console setting is performed.

(1) TARGET SERVER SETUP **Servers connected to KVM

Resolution

The IP KVM remote console recognizes several varieties of video display formats with resolutions up to 1600 x 1200 @60Hz. (Refer to the User Manual for a list of supported video formats). Minimize bandwidth by setting the target server's video resolution to the minimum setting required for your remote monitoring application.

The following video modes are recommended:
(i) 800 x 600 @ 60Hz
(ii) 1024 x 768 @ 60Hz
(iii) 1280 x 1024 @ 60Hz

On a Windows target server system, select Control Panel > Display > Settings.
Modify the screen resolution value as necessary.

Mouse

Use generic mouse drivers for optimum mouse control during remote sessions. Set the mouse pointer speed to a middle setting with no acceleration or snap-to effects.

On a Windows target server system, select Control Panel > Mouse > Pointer Options
Set the pointer speed to medium and disable Enhanced pointer precision

For Linux GUIs, set the mouse acceleration to exactly 1 and the threshold to exactly 1.

If your keyboard keeps repeating keys when it is plugged into the KVM. Please follow either one below :

(a.)
Enable key release timeout if you experience duplicated keystrokes during poor network performance.
- login to IP KVM remote console
- go to Interfaces KVM settings > Keyboard / Mouse
- click the Key Release Timeout
- adjust Timeout after if necessary

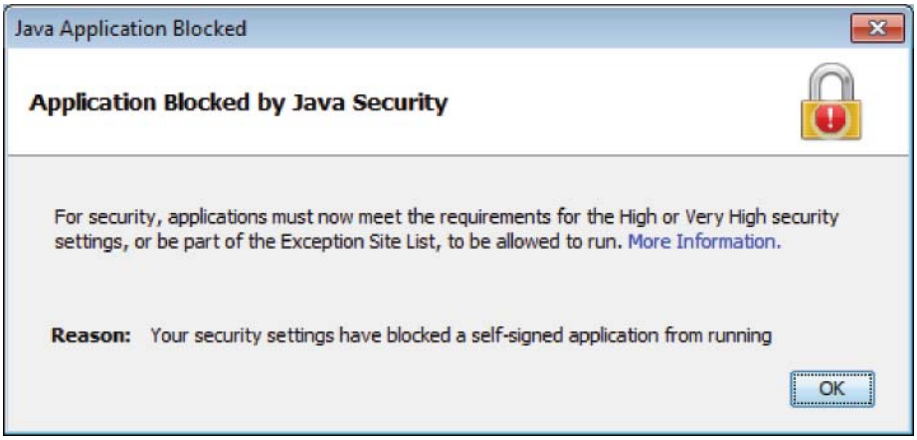
(b.)
Reduce video bandwidth usage if you experience duplicated keystrokes during poor network
- login to IP KVM remote console
- go to Interfaces KVM Settings > User Console > Transmission Encoding,
- select Manually
- adjust Compression to [0-none] and Color depth to [8-bit – 256 col]

(2) REMOTE CLIENT COMPUTER SETUP

The remote client computer must have a web browser (such as Microsoft Internet Explorer, Mozilla Firefox, and Netscape Navigator) and a Java Virtual Machine (version 1.4 or higher) installed. Enable Java on the web browser.

JAVA Security Issue

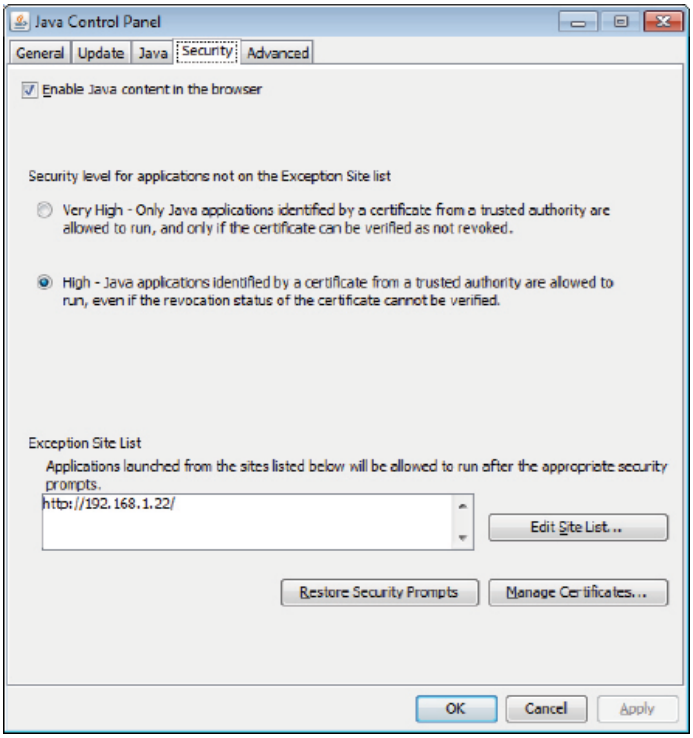
Due to the changes from Java security, customer may facing the "JAVA Block" message while accessing the remote console over IP.

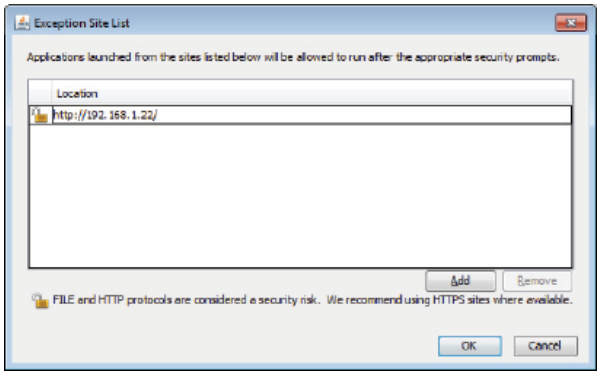

Java Application Blocked
Application Blocked by Java Security
For security, applications must now meet the requirements for the High or Very High security settings, or be part of the Exception Site List, to be allowed to run. More Information.
Reason: Your security settings have blocked a self-signed application from running
OK

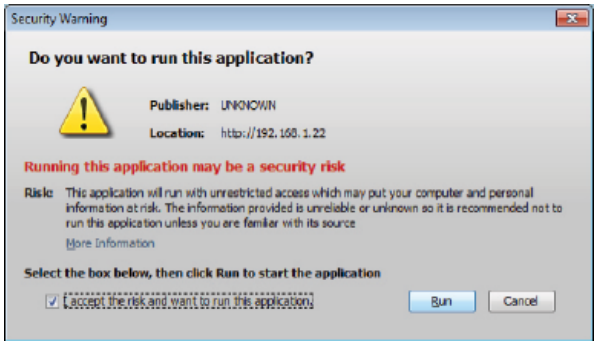
If it said so, here is the workaround solution :
Customer can use the "Exception Site list" feature to run the applications blocked by security setting. Adding the URL of the blocked application to the Exception Site list allows it to run with some warnings.

Steps to Add URLs to the Exception Site list :

- Go to the Java Control Panel (On Windows Click Start and then Configure Java)
- Click on the Security tab
- Click on the Edit Site List button
- Click Add in the Exception Site List window
- Click in the empty field under the Location field to enter the URL (URL should begin with http:// or https://)


Java Control Panel
General
Update
Java
Security
Advanced
Enable Java content in the browser
Security level for applications not on the Exception Site list
Very High - Only Java applications identified by a certificate from a trusted authority are allowed to run, and only if the certificate can be verified as not revoked.
High - Java applications identified by a certificate from a trusted authority are allowed to run, even if the revocation status of the certificate cannot be verified.
Exception Site List
Applications launched from the sites listed below will be allowed to run after the appropriate security prompts.
http://192.168.1.22/
Edit Site List...
Restore Security Prompts
Manage Certificates...
OK
Cancel
Apply


Exception Site List
Applications launched from the sites listed below will be allowed to run after the appropriate security prompts.
Location
http://192.168.1.22/
Add
Remove
FILE and HTTP protocols are considered a security risk. We recommend using HTTPS sites where available.
OK
Cancel

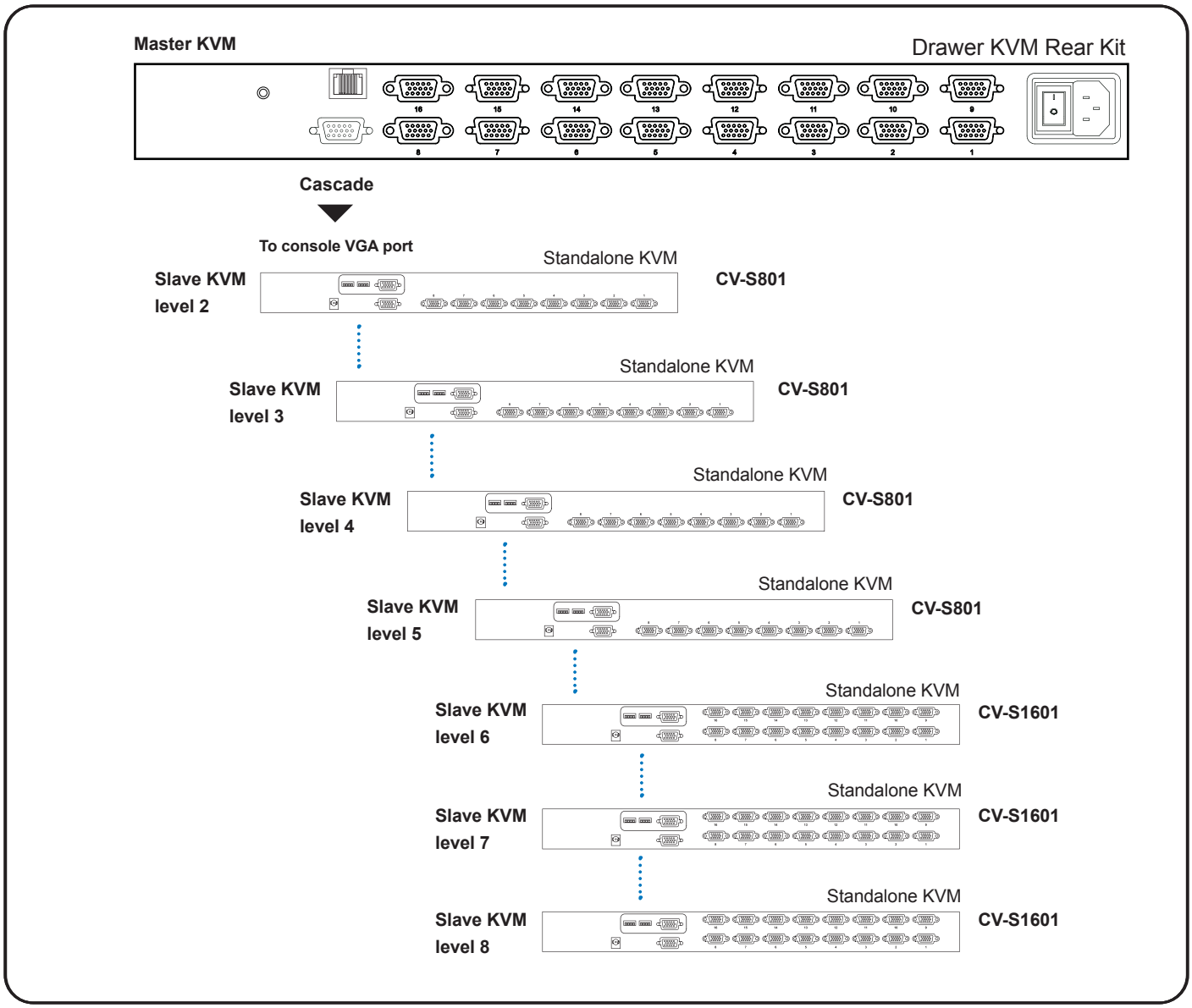

Security Warning
Do you want to run this application?
Publisher: UNKNOWN
Location: http://192.168.1.22
Running this application may be a security risk
Risk: This application will run with unrestricted access which may put your computer and personal information at risk. The information provided is unreliable or unknown so it is recommended not to run this application unless you are familiar with its source
More Information
Select the box below, then click Run to start the application
I accept the risk and want to run this application.
Run
Cancel

< 1.6 > KVM Cascade

- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.

Cascaded KVMs from level 2 to 8 must be the models of CV-S801 / CV-S1601.

When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



CBC-6

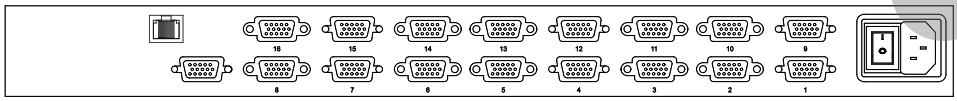
- 6ft Combo KVM cascade cable

	-IP802 -IP1602
■ **KVM Port**	
Number of ports:	8 or 16
Connector:	DB-15 combo connector
Connectivity:	Combo 4-in-1 KVM cable, up to 6, 10 & 15 feet
■ **Local Console**	LCD console drawer version (up to 1920 x 1080 / 1920 x 1200)
■ **IP Remote Console**	
Connector:	RJ45 Ethernet
User management:	15-user login, 1 x active user
Network protocol:	DHCP / BOOTP / DNS
Security:	SSL v3, RSA, AES, HTTP / HTTPs, CSR
Resolution:	Up to 1600 x 1200
Browser:	IE, Firefox, Safari, Netscape
■ **Expansion:**	Up to 128 servers by 8-level cascade
■ **Compatibility**	
Multi-platform:	Mix PCs, SUN and Mac G3 / G4 Mac / iMac
Support:	Windows 7 / Vista / 2003 / XP, Linux, Unix
■ **Power**	
Input:	Auto sensing 100 to 240VAC, 50 / 60 Hz
Option DC:	12V / 24V / 48V / 110 ~ 125V DC input
Consumption:	Max. 24 Watt, Standby 5 Watt
■ **Regulatory**	
Safety:	FCC & CE certified
Environment:	RoHS2 & REACH compliant
■ **Environmental**	
Operating:	0 to 55°C
Storage:	-5 to 60°C
Relative humidity:	90%, non-condensing
Shock:	50G peak acceleration (11ms, half-sine wave)
Vibration:	58~100Hz / 0.98G (11ms / cycle)

-802 / -1602

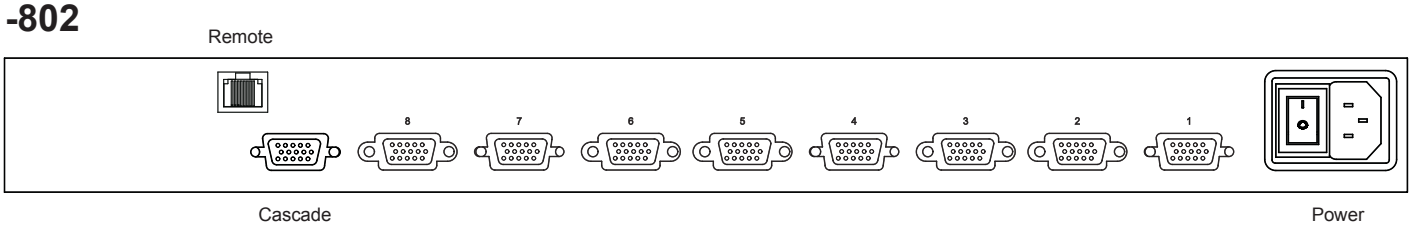
- Receiver box for remote console x 1
- Power adapter w/ power cord (for receiver) x 1
- CE-6 6ft Combo KVM cable for receiver box x 1

KVM Rear Kit

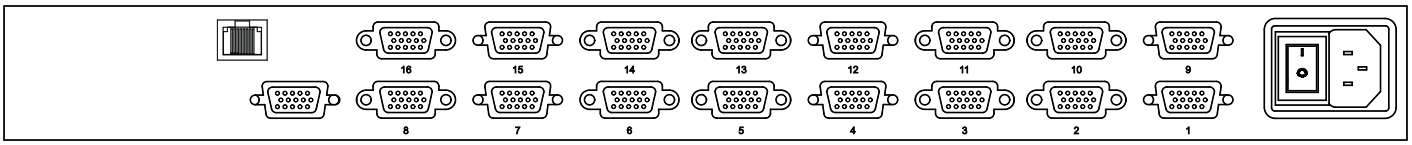


The power of the KVM rear kit may be changed to external power design based on the LCD console drawer series and model.

-802

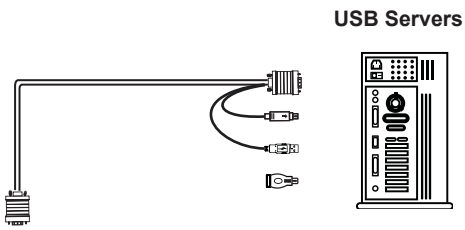


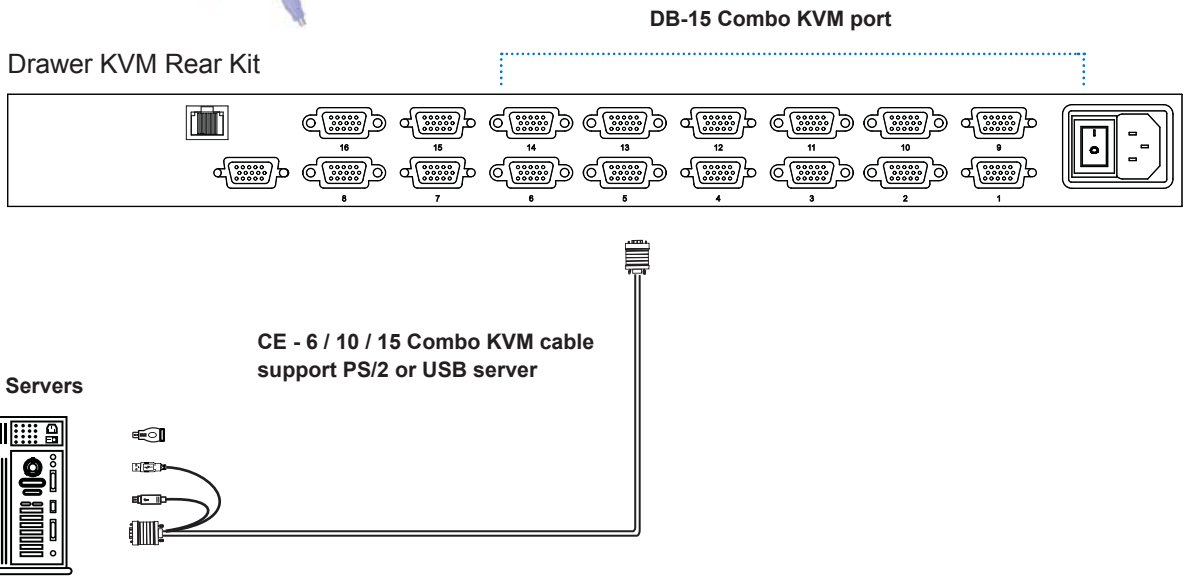
-1602



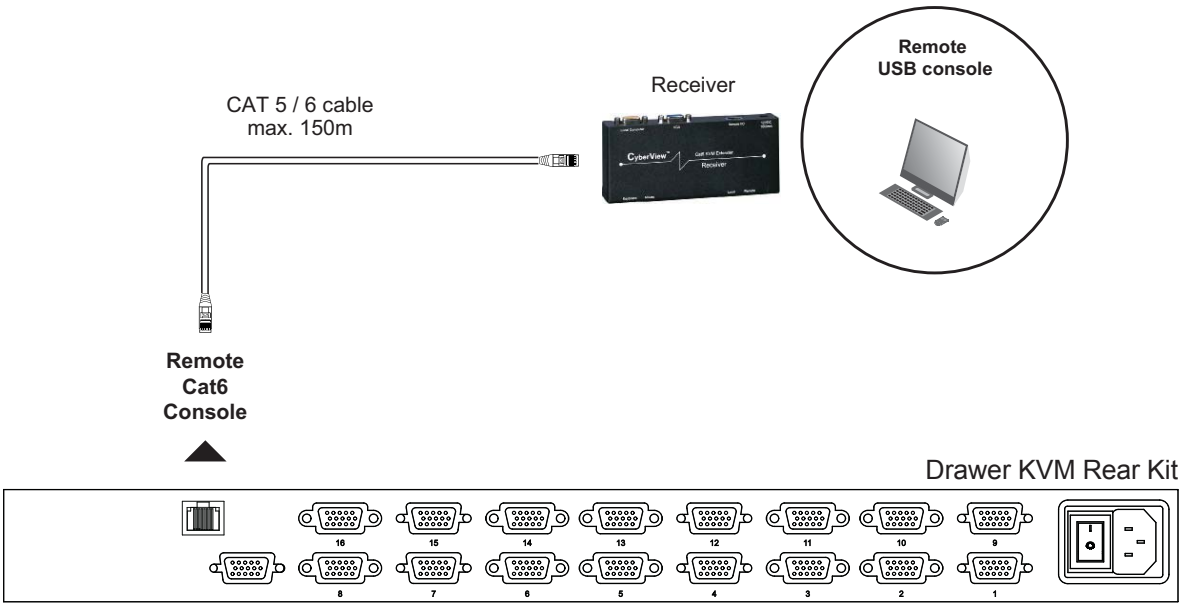
CE-6 / CE-10 / CE-15

- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server

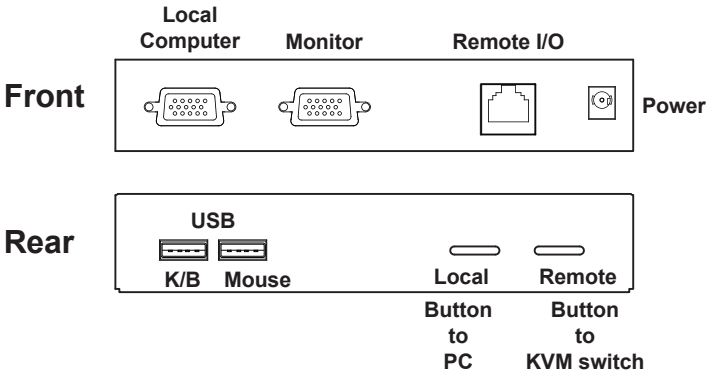




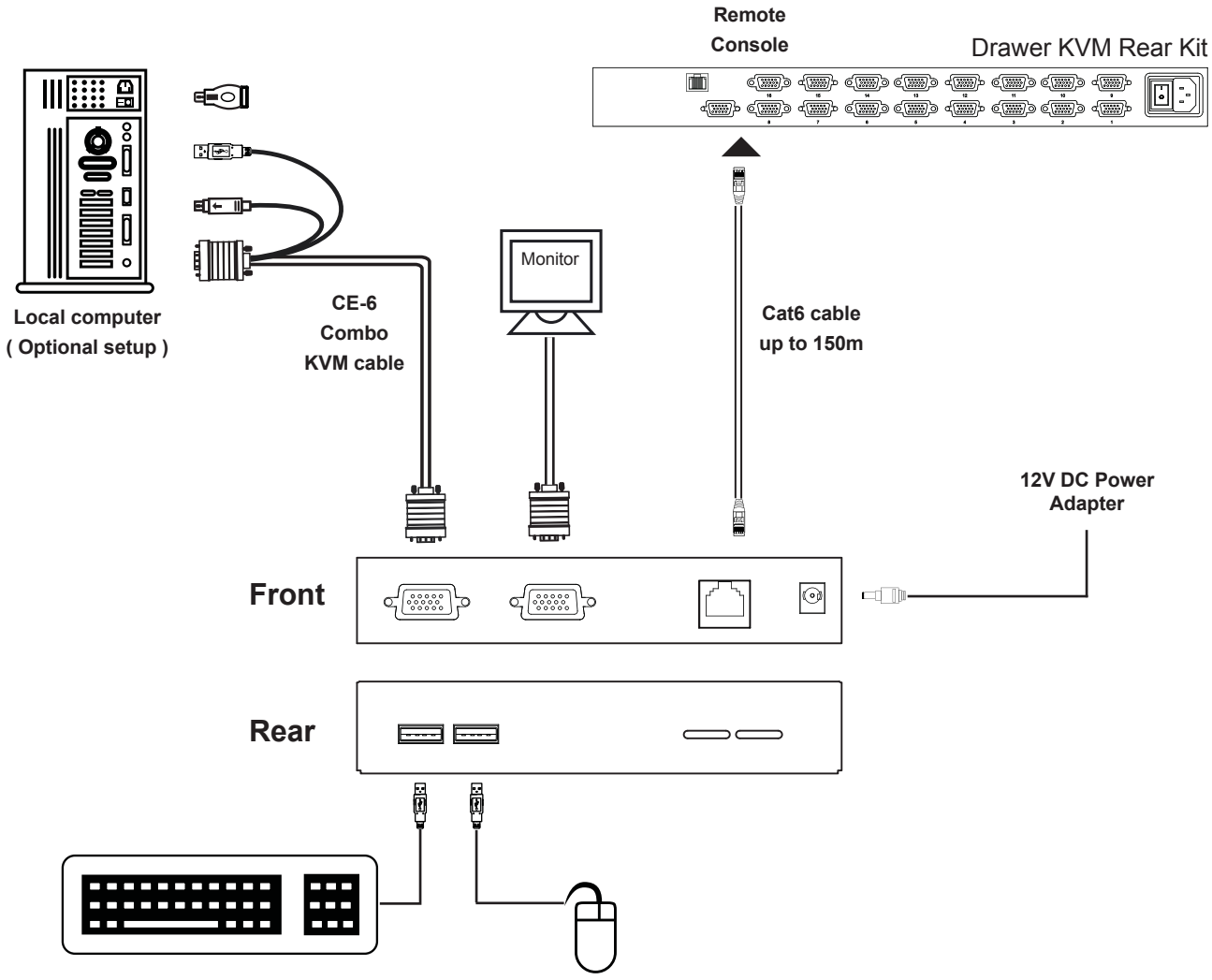
< 2.3 > Remote console connection



Receiver



The receiver provides a hotkey function for remote console. Please refer to P.18

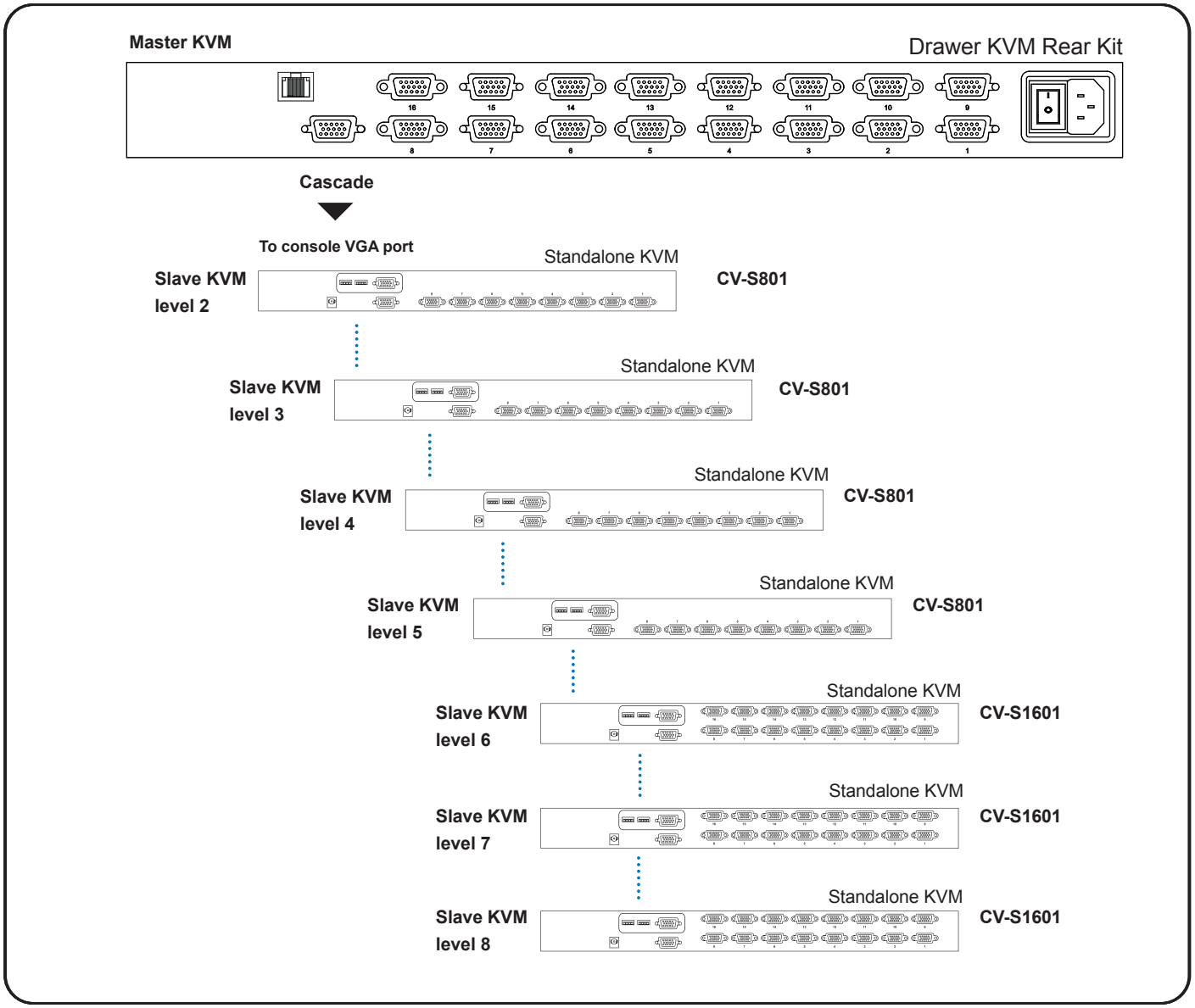


< 2.4 > KVM Cascade

- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.

Cascaded KVMs from level 2 to 8 must be the models of CV-S801 / CV-S1601.

When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



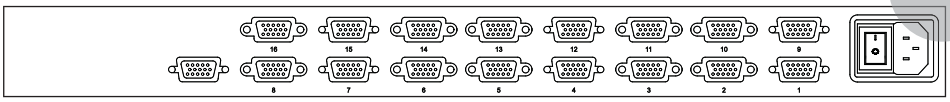
CBC-6

- 6ft Combo KVM cascade cable

	-802	-1602
■ **KVM Port**		
	Number of ports:	8 or 16
	Connector:	DB-15 combo connector
	Connectivity:	Combo 4-in-1 KVM cable, up to 6, 10 & 15 feet
■ **Local Console**	LCD console drawer version (up to 1920 x 1080 / 1920 x 1200)	
■ **Remote Console**		
	Connector:	1 x DB 15-pin, VGA
	Resolution:	Up to 1600 x 1200
	Input device:	2 x USB type A for keyboard & mouse
	Remote I/O:	RJ45 via Cat5 / Cat5e / Cat6 cable up to 150m
	Compensation:	Auto adjust for cable length
■ **Expansion:**	Up to 128 servers by 8-level cascade	
■ **Compatibility**		
	Multi-platform:	Mix PCs, SUN and Mac G3 / G4 Mac / iMac
	Support:	Windows 7 / Vista / 2003 / XP, Linux, Unix
■ **Power**		
	Input:	Auto sensing 100 to 240VAC, 50 / 60 Hz
	Option DC:	12V / 24V / 48V / 110 ~ 125V DC input
	Consumption:	Max. 24 Watt, Standby 5 Watt
■ **Regulatory**		
	Safety:	FCC & CE certified
	Environment:	RoHS2 & REACH compliant
■ **Environmental**		
	Operating:	0 to 55°C
	Storage:	-5 to 60°C
	Relative humidity:	90%, non-condensing
	Shock:	50G peak acceleration (11ms, half-sine wave)
	Vibration:	58~100Hz / 0.98G (11ms / cycle)

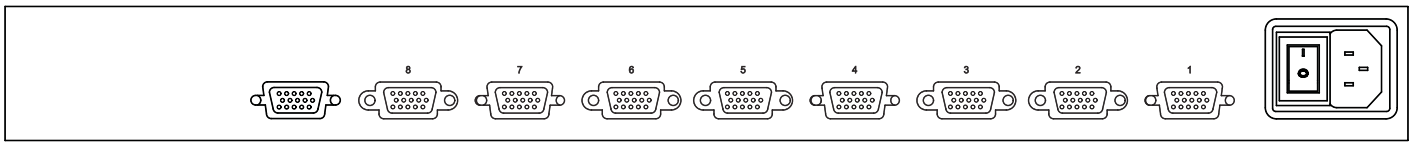
-S801
-S1601

KVM Rear Kit

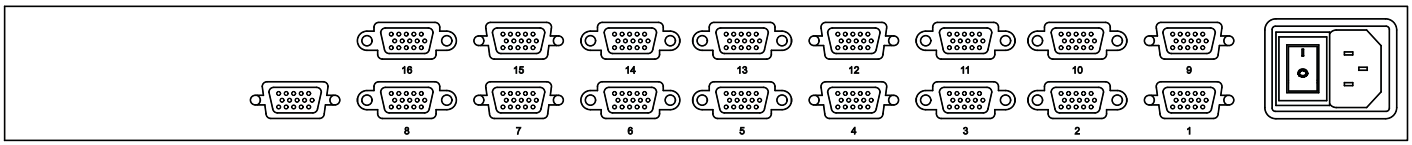


The power of the KVM rear kit may be changed to external power design based on the LCD console drawer series and model.

-S801

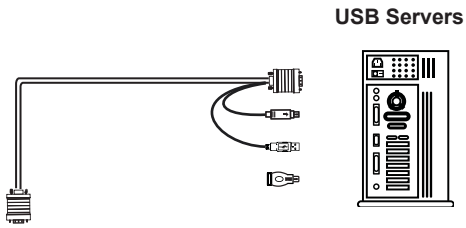


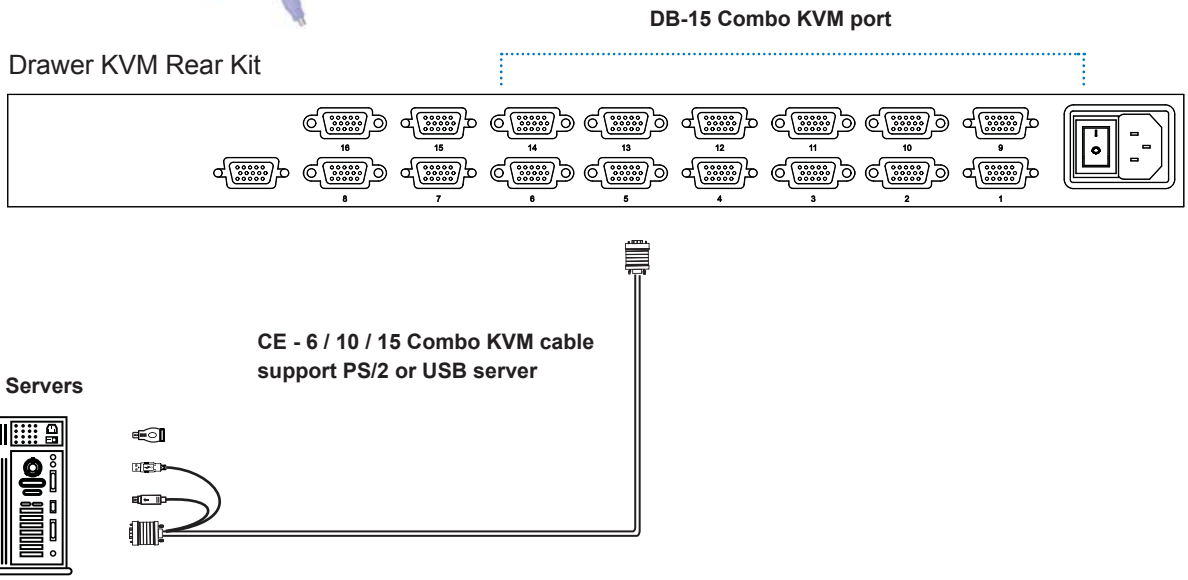
-S1601



CE-6 / CE-10 / CE-15

- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server



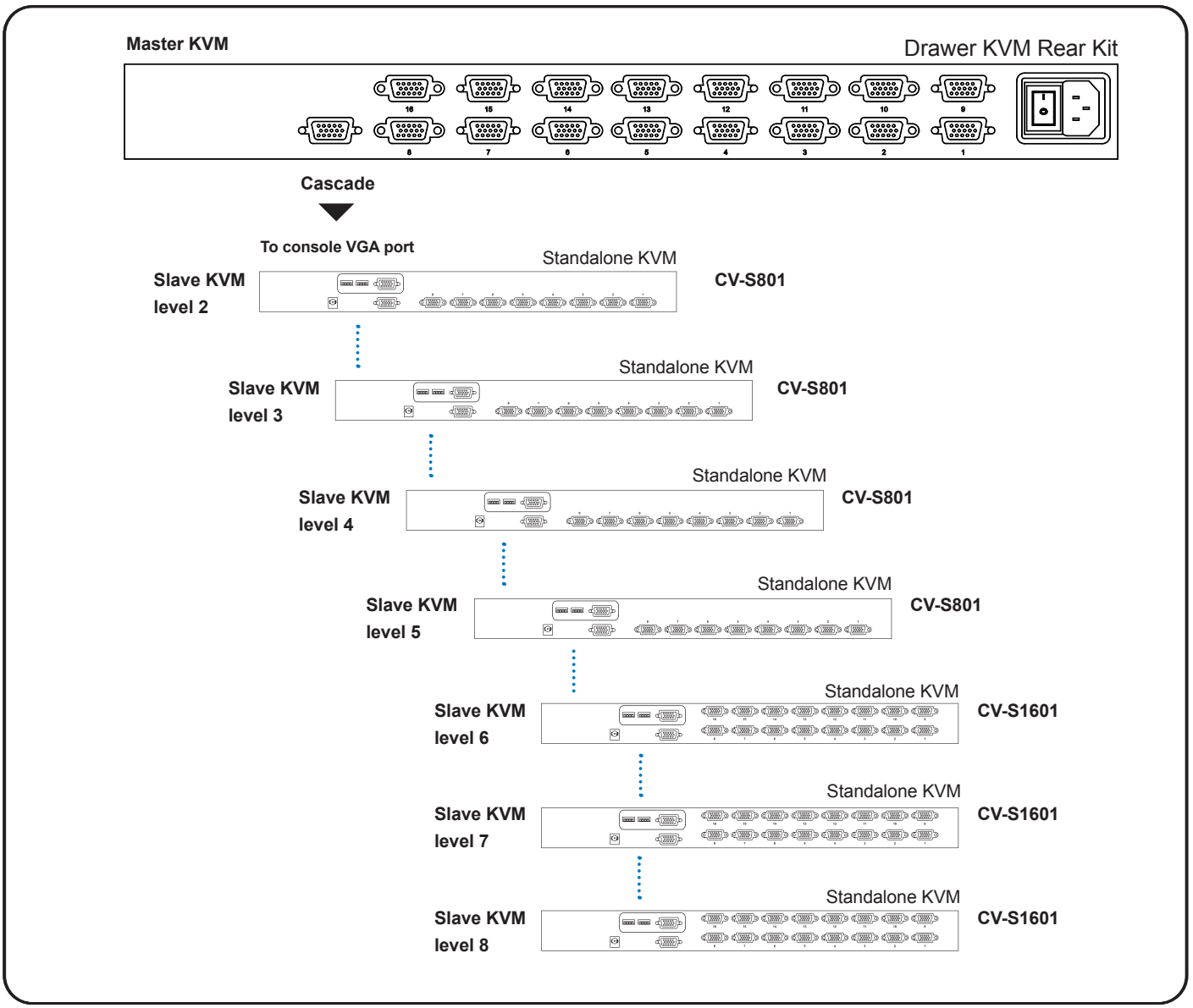


< 3.3 > KVM Cascade

- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.

Cascaded KVMs from level 2 to 8 must be the models of CV-S801 / CV-S1601.

When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



CBC-6

- 6ft Combo KVM cascade cable

	-S801	-S1601
■	**KVM Port**	
	Number of ports:	8 or 16
	Connector:	DB-15 combo connector
	Connectivity:	Combo 4-in-1 KVM cable, up to 6, 10 & 15 feet
■	**Local Console**	LCD console drawer version (up to 1920 x 1080 / 1920 x 1200)
■	**Management**	
	Multilingual OSD:	English, France, German, Spanish, Italian, Russian, Simplified Chinese, Japanese
	Hotkey combination:	Scroll-lock, Cap-lock, Num-lock, Alt, Ctrl & Win
	Security:	Password enable & disable, up to 8 users profile for port access
	PC Selection:	Front button, OSD menu & hotkey
■	**Expansion:**	Up to 128 servers by 8-level cascade
■	**Compatibility**	
	Multi-platform:	Mix PCs, SUN and Mac G3 / G4 Mac / iMac
	Support:	Windows 7 / Vista / 2003 / XP, Linux, Unix
■	**Power**	
	Input:	Auto sensing 100 to 240VAC, 50 / 60 Hz
	Option DC:	12V / 24V / 48V / 110 ~ 125V DC input
	Consumption:	Max. 24 Watt, Standby 5 Watt
■	**Regulatory**	
	Safety:	FCC & CE certified
	Environment:	RoHS2 & REACH compliant
■	**Environmental**	
	Operating:	0 to 55°C
	Storage:	-5 to 60°C
	Relative humidity:	90%, non-condensing
	Shock:	50G peak acceleration (11ms, half-sine wave)
	Vibration:	58~100Hz / 0.98G (11ms / cycle)

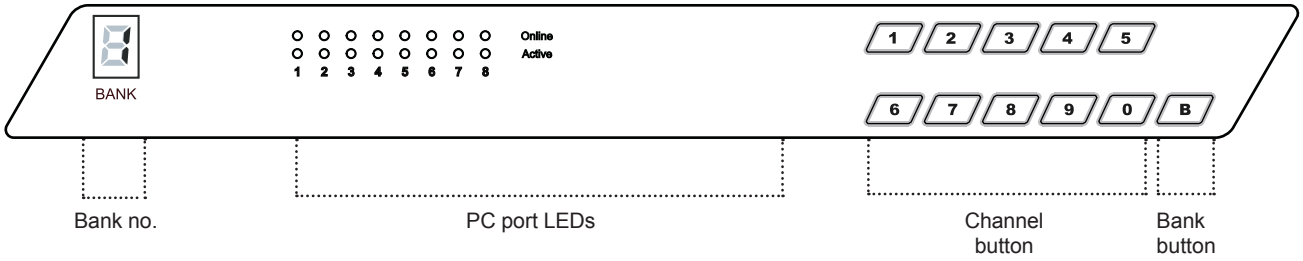
4.1 KVM Button

Power ON

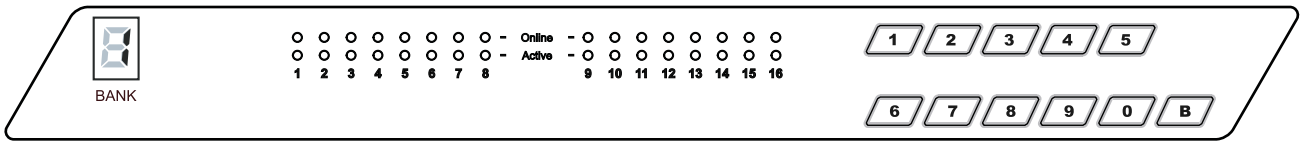
- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer

Front Panel - Port LED Indications

8 ports



16 ports



Bank no.	7-Segment BANK LED indication
PC port LEDs	***Online*** : **Blue** LED on indicating a PC is connecting to the port ***Active*** : **Green** LED on indicating a selected channel
Channel button	Press to select channel from 01 to 16
Bank button	Select the bank from 1 to 8

The password is enabled by default, the default password is “00000000” eight zeros **(Do not use “0” on number pad)**

■ **Enable password**

1. Press the KVM hotkey **Scroll Lock + Scroll Lock + U**
2. Logout the KVM by pressing the hotkey **Scroll Lock + Scroll Lock + P**
3. In SUPERVISOR level, enter “00000000” eight zeros in user name & password field **(Do not use “0” on number pad)**
4. In USER level, press **Space bar** + **Enter** in user name & password field

   Remark: Automatic logout after 10 minutes of inactivity

■ **Set your own user name & password**

1. Login the KVM in SUPERVISOR level by pressing “00000000” eight zeros in user name & password field
2. Call KVM OSD menu by pressing the KVM hotkey **Scroll Lock + Scroll Lock + Space Bar**
3. Press **F1** to the MAIN MENU
4. Select “USER SECURITY”
5. Set password in SUPERVISOR & USER level
   a. In the left-top row “S” (SUPERVISOR), press **Enter** to set your own user name & password
   b. In the row 1 to 8 (USER), press **Enter** to set your own user name & password
6. Press **Enter** to save the setting or press **Esc** to cancel the editing without any change

   Remark: a. Blank has underscore, while SPACE doesn’t have
   b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

■ **Change your password**

1. Login the KVM in SUPERVISOR level by pressing your own user name & password
2. Call KVM OSD menu by pressing the KVM hotkey **Scroll Lock + Scroll Lock + Space Bar**
3. Press **F1** to the MAIN MENU
4. Select “USER SECURITY”
5. Change password in SUPERVISOR & USER level
   a. In the left-top row “S” (SUPERVISOR), press **Enter** to change your user name & password
   b. In the row 1 to 8 (USER), press **Enter** to change your user name & password
6. Press **Enter** to save the setting or press **Esc** to cancel the editing without any change

   Remark: a. Blank has underscore, while SPACE doesn’t have
   b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

■ **Disable your password**

1. Press the KVM hotkey **Scroll Lock + Scroll Lock + U**
2. Logout the KVM by pressing the KVM hotkey **Scroll Lock + Scroll Lock + P**
3. You don’t need user name & password to access the KVM OSD menu

■ **Forget your password**

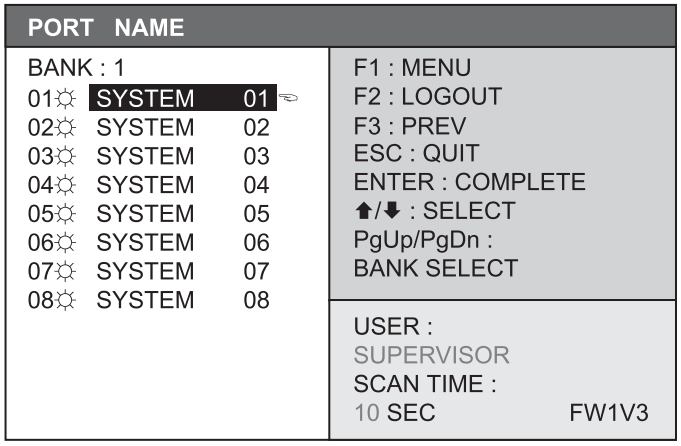
Please contact your supplier for further support

Remark:

■ You must press the KVM hotkey within 2 seconds

■ A beep sound will be heard for successful entering KVM hotkey

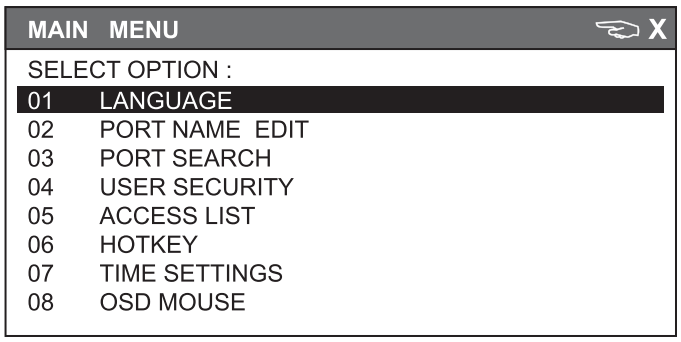
OSD Menu



OSD operation

☼ next to the system name	The PC is powered on
☜ next to the system name	The PC is selected
F1	Access F1 MAIN MENU
F2	Logout the OSD menu
F3	Previous menu
Esc	Cancel / Quit
Enter	Complete / Switch to selected port
⬆/⬇	Switch to previous or next port
PgUp/PgDn	Switch to previous bank or next bank
1 / 2 / 3 / 4	Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32 Remark: Display port 17 ~ 32 for 32 port model only

F1 Main Menu



01 LANGUAGE	OSD language change
02 PORT NAME EDIT	Define port name
03 PORT SEARCH	Quick searching by port name
04 USER SECURITY	Change password
05 ACCESS LIST	Define user access authority
06 HOTKEY	Change hotkey
07 TIME SETTINGS	Modify scan display time interval
08 OSD MOUSE	Modify OSD mouse speed

Local Console Hotkey	Function
Scroll Lock + Scroll Lock + Space Bar	Calling OSD menu
Right-button mouse + Esc	Calling OSD menu
Scroll Lock + Scroll Lock + ⬆	Switch to previous port
Scroll Lock + Scroll Lock + ⬇	Switch to next port
Scroll Lock + Scroll Lock + PgUp / PgDn	Switch to previous bank or next bank
Scroll Lock + Scroll Lock + Bank no. + Port no.	Switch to specific port
Scroll Lock + Scroll Lock + B	Turn the buzzer ON and OFF * Default the buzzer is ON
Scroll Lock + Scroll Lock + P	Logout the KVM if password security is ON. Show up the status windows

Advance hotkeys (for Supervisor login only)	
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode
Scroll Lock + Scroll Lock + R	Reset all the KVM settings to factory default *Except User Security settings
Scroll Lock + Scroll Lock + U	Disable and enable password security *Default security is ON
Scroll Lock + Scroll Lock + L	To enable / disable the screen saving function and 10 minutes auto-logout *Default the screen saving is OFF

Remarks:

- Example of "**Scroll Lock + Scroll Lock +** Bank no. + Port no."
  - Bank No. : 1 to 8
  - Port No. : 01 to 16
  - e.g. Bank 1 Port 4 : **Scroll Lock + Scroll Lock + 1 + 0 + 4**
  - e.g. Bank 2 Port 16 : **Scroll Lock + Scroll Lock + 2 + 1 + 6**
- You must press the hotkey within 2 seconds
- A beep sound will be heard for successful entering
- The numeric keypad is not supported, while in OSD screen, the arrow keys, PgUp, PgDn, and Enter keys are supports

Remote Console Hotkey	Function
Scroll Lock + Scroll Lock + C	Toggle switch between remote & local port
Scroll Lock + Scroll Lock + Q	Turn the buzzer ON & OFF *Default the buzzer is ON
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for remote & local port *The scan time interval is 5 seconds
Scroll Lock + Scroll Lock + A	Auto-adjust the video signal

Model	12V	24V	48V	110 ~ 125V
Input rating				
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current				
- No load	50 mA	50 mA	50 mA	40 mA
- Full load	4950 mA	2450 mA	1220 mA	993 mA
Output rating				
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	8.4A
Efficiency	84%	85%	85%	92%

Remarks:

■ Package does not include power cord

IP Console

Resolution	Frequency (Hz)
1600 x 1200	60
1280 x 1024	60
1280 x 960	60
1152 x 864	75
1024 x 768	60 / 70 / 75
800 x 600	60 / 72 / 75
640 x 480	60 / 72 / 75

Remote Console

Resolution	Frequency (Hz)
1600 x 1200	60
1440 x 900	60
1280 x 1024	60
1280 x 960	60
1152 x 864	75
1024 x 768	60 / 70 / 75
800 x 600	60 / 72 / 75
640 x 480	60 / 72 / 75

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